*CLASS COPY – DO NOT WRITE ON THIS!*

CW#5: Constructions

Geometry

DIRECTIONS: Complete all problems in your notebook. If a problem provides a figure, sketch the figure in your notebook. If the problem asks you to “draw”, draw it in your notebook.

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| 1. Measure the following line segments to the nearest tenth of a centimeter and the nearest of an inch.     AB: \_\_\_\_\_\_\_\_ centimeters \_\_\_\_\_\_\_\_\_ inches  CD: \_\_\_\_\_\_\_\_ centimeters \_\_\_\_\_\_\_\_\_ inches | | | 1. a) Match the 0 cm mark at point A. How long is segment AB? b) If Jorge decides to match the 2 cm mark at point A, will the length of the segment change? *Explain.* | | |
| 1. Draw a line that is 2cm long. Label one end A and the other C. | | |
| 4. Draw a line that is 1.5 inches. Label this segment FM. | 5. Label a point, A, on the line such that the distance between N and A would be the same as the distance between M and L. | | | 6. Label a point, B, on the line such that the distance between K and B would be the same as the distance between M and L. | |
| Directions: Copy each of the segments below into your notebook by measuring the segments. | | | | | |
| 7. | | 8. | | | 9. |
| 10. |

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| 11.  a) How long is the segment between point A and point B? How long is the segment between point B and point C?    C  B  A  b) How long is the entire segment, from point *A* to point *C*? | | |
| 12. Find *KM.* | 13. Find *ST.* | 14. The diagram shows three houses on a street. Find the distance from House A to House C. |
| 15. If *AC* = 35, what is the value of MC?  x + 5 2x  A M C | 16. Find *LM*. | 17. Find *YZ*. |
| 16. On a particular line segment, points *A*, *B*, and *C* are collinear, and *B* is between *A* and *C*. If *AB* = 15 and *BC* = 9, what is the measure of *BC*? | | |
| **Challenge Question!** | | |

Directions: Copy the following segments into your notebook by measuring them with a protractor.

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Challenge Problem: Recreate the picture below using a ruler and a protractor.   
